International Application No. PCT/US2005/012028

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/495 A61F A61P25/28 C07D295/18 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C07D A61P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data, CHEM ABS Data, BEILSTEIN Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1-27 WO 2004/108666 A (SAMARITAN Ρ,Χ, PHARMACEUTICALS; GEORGETOWN UNIVERSITY; LECANU, LAURENT; GRE) 16 December 2004 (2004-12-16) page 5, lines 21-23; compound SP008 figure 1; compound SP016 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents : *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an invention and the considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the ed. document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 27/10/2005 20 October 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

Kollmannsberger, M

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	7 € 17 0320037 012028
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	LECANU L ET AL: "Identification, design, synthesis, and pharmacological activity of (4-ethyl-piperazin-1-yl)-phenylmethanone derivatives with neuroprotective properties against beta-amyloid-induced toxicity" NEUROPHARMACOLOGY, PERGAMON PRESS, OXFORD, GB, vol. 49, no. 1, July 2005 (2005-07), pages 86-96, XP004963513 ISSN: 0028-3908 the whole document	1-27
P,X	WO 2004/035556 A (GLAXO GROUP LIMITED; ANCLIFF, RACHAEL; ELDRED, COLIN, DAVID; FOGDEN, Y) 29 April 2004 (2004-04-29) claim 7 examples 1-11,32-47	1-27
Α .	US 5 693 804 A (DEBERNARDIS ET AL) 2 December 1997 (1997-12-02) column 5, line 50 - column 6, line 31	1-27
A	WO 01/07435 A (MERCK PATENT GMBH; BOETTCHER, HENNING; GREINER, HARTMUT; HARTING, JUER) 1 February 2001 (2001-02-01) claims	1-27
A	US 2004/034019 A1 (TOMLINSON RONALD ET AL) 19 February 2004 (2004-02-19) examples 56,57	1-27
X	DE 23 04 155 A1 (ICHTHYOL-GESELLSCHAFT CORDES, HERMANNI & CO, 2000 HAMBURG) 1 August 1974 (1974-08-01) claims 1,7 table 1 examples	25
X	YUNG D K ET AL: "POTENTIAL ANTI ARRHYTHMIC AGENTS SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF SOME PIPERAZINE AND ETHYLENEDIAMINE ANALOGS OF PROCAINAMIDE 1 N PROPYL-4-BENZOYL PIPERAZINE HYDRO CHLORIDE 1 N BUTYL-4-BENZOYL PIPERAZINE HYDRO CHLORIDE 1 N PROPYL-4-P-METHOXYBENZOYL PIPERAZINE HYDRO CHLORIDE 1 N PROPYL-4-P" JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 57, no. 12, 1968, pages 2073-2080, XP009055767 ISSN: 0022-3549 table III	25
	-/	

C.(Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	101/032003/012028		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	FUKUSHI H ET AL: "SYNTHESIS AND PLATELET-ACTIVATING FACTOR (PAF)-ANTAGONISTIC ACTIVITIES OF 1,4-DISUBSTITUTED PIPERAZINE DERIVATIVES" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN, TOKYO, JP,	25		
	vol. 42, no. 3, March 1994 (1994-03), pages 541-550, XP001118308 ISSN: 0009-2363 compound 2B table 1; compounds 2A-2M			
X	YOUNES-EL-HAGE S ET AL: "SYNTHESE ET ETUDE DE L'ACTIVITE ANTIDEPRESSIVE D'ARYL ET HETEROARYL CARBOXAMIDES DE LA BENZYLPIPERAZINE SYNTHESIS AND ANTIDEPRESSIVE ACTIVITY STUDY OF ARYL AND	25		
	HETEROARYL CARBOXAMIDES OF BENZYLPIPERAZINE" ANNALES PHARMACEUTIQUES FRANCAISES, MASSON, PARIS, FR, vol. 58, no. 4, 2000, pages 254-259, XP008031993 ISSN: 0003-4509 table 1; compounds 1-14,23,24,27-42			
X	YOUNES S ET AL: "Synthesis and structure-activity relationships of novel arylalkyl 4-benzyl piperazine derivatives as sigma site selective ligands" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 35, no. 1, January 2000 (2000-01), pages 107-121, XP004350211 ISSN: 0223-5234 compound 5	25		
X	BAZIARD-MOUYSSET G ET AL: "Synthesis and structure-activity relationships of novel 2-amino alkyl chromones and related derivatives as sigma site-selective ligands" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 33, no. 5, June 1998 (1998-06), pages 339-347, XP004127366 ISSN: 0223-5234 table 1; compound 21	25		
	-/			
		·		

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
X	CARCELLER E ET AL: "(PYRIDYLCYANOMETHYL)PIPERAZINES AS ORALLY ACTIVE PAF ANTAGONISTS" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 35, no. 22, 1992, pages 4118-4134, XP002044180 ISSN: 0022-2623 table 1; compound 34		25			
	*					
	. •					
·.						
			:			
}						
		•				
			·			
·						
			·			
,						
	·					

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-24, 26 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

			·				
	tent document in search report		Publication date		Patent family member(s)		Publication date
WO	2004108666	. A	16-12-2004	NONE			
WO	2004035556	A	29-04-2004	AU	2003280380	A1	04-05-2004
	•			BR	0315283	Α	30-08-2005
				CA	2502249	A1	29-04-2004
				EP	1567511	A1	31-08-2005
US	5693804	Α	02-12-1997	AU	711703		21-10-1999
		•	•	ΑU	4238796		17-06-1996
				EP	0792269	A2	03-09-1997
•				JP	10510248	T	06-10-1998
				WO	9616052	A2	30-05-1996
WO	0107435	Α	01-02-2001	AT	236877		15-04-2003
			÷	AU	770411		19-02-2004
				AU	6270400		13-02-2001
				BR	0012607	Α	09-04-2002
			•	CA	2383779		01-02-2001
		•		CN	1364157	Α	14-08-2002
				CZ	20020068		17-04-2002
				DE	19934433	A1	25-01-2001
				DK	1198453	T3	21-07-2003
				EP.	1198453	A2	24-04-2002
				ES	2192535	T3	16-10-2003
				HU	0201988	A2	28-11-2002
				JP	2003505458	T	12-02-2003
				MX	PA02000730	A	20-08-2002
				NO	20020307	Α	21-03-2002
				PL	353446		17-11-2003
				PΤ	1198453		29-08-2003
				ŠK	512002		09-05-2002
				ÜS	6838461		04-01-2005
				ZA	200201486		21-05-2003
US	2004034019	A1	19-02-2004	NONE			
DE	2304155	A1	01-08-1974	BE	810293		16-05-1974
				ES	422738		01-08-1976
				FR	2215236		23-08-1974
				GB	1434323	Α	05-05-1976
				JP	50005389	Α.	21-01-1975
				NL	7401215	_	31-07-1974

Copy for the designated Office (DO/EP)

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 05 December 2005 (05.12.2005)	STEFFEY, Charles, E. Schwegman, Lundberg, Woessner & Kluth, P.A. P.O. Box 2938 Minneapolis, MN 55402 United States of America			
Applicant's or agent's file reference 1941,001WO1	IMPORTANT NOTIFICATION			
International application No. PCT/US2005/012028	International filing date (day/month/year) 12 April 2005 (12.04.2005)			
The following indications appeared on record concerning: X the applicant X the inventor the agent the common representative				
Name and Address LECANU, Laurent GREESON, Janet PAPADOPOULOS, Vassilios	State of Nationality State of Residence Telephone No.			
	Facsimile No. Teleprinter No.			
7. The least state of Durant hereby petiting the applicant that t	he following change has been recorded concerning:			
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: X the person the name the address the nationality the residence				
Name and Address EPO-DG	State of Nationality State of Residence			
2 1 12. 2005	Telephone No.			
	Facsimile No.			
TEAM 14	Teleprinter No.			
3. Further observations, if necessary: Assignment of rights. The persons indicated in Box 1 are now recorded as applicants for the US only and Inventors for all designated States.				
4. A copy of this notification has been sent to:				
X the receiving Office	X the designated Offices concerned			
the International Searching Authority	the elected Offices concerned			
the International Preliminary Examining Authority	other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer D. CABOT			
Facsimile No. (41-22) 338.70.80	Telephone No. (41-22) 338 8435			

Form PCT/IB/306 (March 1994)

006864637